MODIFIED SCHEDULE - B

Name of Work: Modified Estimate for Construction of RO Plant in Ward No. 14

Sl. No.	Approved Quantity	Description	Unit	KRIDL Rates	
				Rate	In Words
1	130.39	Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications.	Cum	326.96	Rupees Three hundred twenty six & Ninety Six Paise Only
2	29.33	Providing and laying in position plain cement concrete of mix 1:3;6 with OPC cement @ 220 kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.	Cum	5769.83	Rupees Five thousand Seven hundred Sixty Nine & Eighty three Paise Only
3	6.32	Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications	Cum	5046.22	Rupees Five thousand Forty Six & Twenty two Paise Only
4	3.56	Providing ruled pointing to coursed masonary with cement mortar 1;3 20 mm deep after racking the joints to depth of 20 mm nicely lining including cost of materials,labour,curing complete as per specification	Sqm	159.46	Rupees One hundred fifty Nine & Forty Six Paise Only
5	130.39	Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20cms, in depth, compacting each deposited layers by ramming after watering with lead upto 50m, and lift upto 1.5m, including cost of all labour complete as per specifications	Cum	219.79	Rupees Two hundred Nineteen & Seventy Nine Paise Only
6	6.46	Providing and laying in position reinforced cement concrete of design mix M 25 with OPC Cement @ 340 kgs with 20 mm and down size granite coarse aggregates @0.70 cum and fine aggregates @0.47 cum with super plasticiser @3 ltrs conforming to IS 9103-1999 Reaffirmed 2008 at machine mixed concrete of ready mixed concrete laid inlayers not exceeding 15 cms thick and well compacted vibrating, curing, forfootings pedestals retaining walls return walls including attached pillasters column spillars posts strusts buttresses bed blocks anchor blocks and plinths including cost of materials labour HOM of machinery etc complete as per specification with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.)	Cum	6749.59	Rupees Six thousand Seven hundred Firty Nine & Fifty Nine Paise Only

Sl. No.	Approved Quantity	Description	Unit	KRIDL Rates	
				Rate	In Words
7	2.46	Providing and laying in position plain cement concrete of mix 1;2;4 with opc cement @240 kgs with 20 mm and down size graded granite metal course aggregates @0.69 cum and fine aggregates @0.459 cum machine mixed concrete laid in layers not exceeding 15 cms thick well compacted for coping including cost of materials,labour HOM of machinery etc complete as per specifications	Cum	6027.34	Rupees Six thousand Twenty Seven & Thirty four Paise Only
8	0.61	Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications	KG	77601.32	Rupees Seventy Seven thousand Six hundred one & Thirty two Paise Only
9	44.98	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications	Sqm	319.30	Rupees Three hundred nineteen & Thirty Paise Only
10	5.40	Providing and fixing pull and push type rolling shutters of approved mke out of 18 guage ,75 mm wide cold rolled steel laths of convex corrugation with side guides and bottom rail with inter locking arrangements for steel laths by means of alternate clips suspention shaft with high tension coil type springs two numbers mounted on a specially designed pipe shaft with bracket plates guide channels ball bearing arrangements for inside &out side locking with push &pull operations complete including pulling hooks 4 Nos handles with all fittings and acessaries painted with a coat of red led paint without top cover cost of materials labour HOM of machinary complete as per specifications	Sqm	2850.75	Rupees Two Thousand Eight hundred fifty & Seventy Five Paise Only
11	1.80	Providing and fixing top covers made out of 20 guage MS Sheet over pull and push rolling shutters bent to shape including cost of red led primer coat of painting materials labour HOM of machinary etc complete as per specifications	Mtr	527.07	Rupees Five hundred twenty seven & seven paise Only
12	77.98	Providing 20 mm thick cement plaster in single coat with cement mortar 1:3, to stone masonryincluding rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials,	Sqm	320.20	Rupees Three hundred twenty & Twenty Paise Only
13	6.11	Providing and fixing in position aluminium Partition walls as per approved drawings with sliding shutters using double track window frame section of size 61.85x31.75mm. with 1.2mm thick, bottom section weight 0.695 kg/m, sides and top sections 1.3 mm. thick weight 0.659 kg/m; and shutter comprising top and bottom section of size 40mmx18mm,	Sqm	3678.53	Rupees Three thousand Six hundred Seventy eight & fifty three Paise
14	1.89	Providing and fixing in position aluminium Doors as per approved drawings with sliding shutters using double track window frame section of size 61.85x31.75mm. with 1.2mm thick, bottom section weight 0.695 kg/m, sides and top sections 1.3 mm. thick weight 0.659 kg/m; and shutter comprising top and bottom section of size 40mmx18mm,	Sqm	6704.25	Rupees Six thousand Seven hundred four & twenty five Paise Only

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Sl. No.	Approved Quantity	Description	Unit	KRIDL Rates	
				Rate	In Words
15	14.04	Applying red lead ready mix priming coat over new steel or other metal surface including preparing the surface after throughly cleaning oil, grease, dirt and other foreign matter, and scoured with wire brushes, fine steel wool, sand papers including cost of materials, labour, complete as per specifications	Sqm	44.83	Rupees Forty four & Eighty three Paise Only
16	14.04	Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications	Sqm	103.88	Rupees One hundred three & Eighty eight Paise Only
17	1	Water purification plants supplying ,installation and commissioning of Automatic Water Purification Plant (RO+UF) with all accessaries piping product water tank on single phase power supply on turnkey /EPC Basic as per the enclosed detailed technical specifications including cost of materials loading and un loading etc complete as per specification	Nos	405000.00	Rupees Four Lakhs Five thousand Only
18	1	Additional price for installation of Ultra violet System	Nos	10000.00	Rupees Ten thousand Only
19	1	Providing and placing on terrace, polyethylene water storage tanks with manhole lid and suitable locking arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes, including cost of all materials, labour, transport charges, HOM of equipments and testing complete as per specifications. (For 1000 litre capacity)	Nos	7466.42	Rupees Seven thousand Four hundred sixty six & Forty two Paise only
20	30	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.) - 25mm nominal OD pipes	Mtr	256.97	Rupees Two hundred fifty six & ninety Seven Paise Only
21	30	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.) - 25mm nominal OD pipes	Mtr	320.40	Rupees Three hundred twenty & Forty Paise Only
22	30	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.) - 25mm nominal OD pipes	Mtr	408.97	Rupees Four hundred eight & Ninety seven Paise Only

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Sl. No.	Approved Quantity	Description	Unit	KRIDL Rates	
				Rate	In Words
23	40	Supplying heavy gauge PVC Conduit Pipe 19/20 mm dia 2 mm thick with suitable size bends, metal junction boxes adhesive paste etc., by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering up to the wall surface and run with 18 SWG GI fish wire run throughout the conduit wherever necessary.	MTR	50.63	Rupees Fifty & Sixty three only
24	70	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of GROUP -A 1.5 sqmm 1) 1.50 Sq mm	Mtr	20.76	Rupees Twenty & Seventy Six Only
25	50	2) 2.5 Sq mm	Mtr	32.40	Rupees Thirty two & forty Paise Only
26	20	3) 4.0 Sq mm	Points	45.56	Rupees Forty Five & fifty Six only
27	4	Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2 X1.5Sq.mm Cable confirming to the GTP, with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet / gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. GROUP A b) Medium point above 3Mtr upto 6Mtr from tapping point to out let via switch	Points	162.00	Rupees One hundred sixty two Only
28	2	Medium Point above 3.0 Mtr Up to 6 Mtrfrom tapping point to out let via switch box	Points	253.13	Rupees Two hundred fifty three & thirteen Paise Only
29	1	Long Point Above 6.0 Mtr Up to 10 Mtr from tapping point to out let via switch box	Nos	379.69	Rupees Three hundred seventy Nine & sixty Nine Paise
30	3	Supplying and flush mounting teak wooden box without front plank, made of not less than 12mm thick wood, after due groove cutting, Finishing with necessary cement plastering complete (1.6.5) 4"x4"x3" (101x101x76mm)	Nos	96.19	Rupees Ninety Six & Nineteen Paise Only
31	2	16-18 way		182.25	Rupees One hundred eighty two & twenty five Paise Only
32	3	Supplying and fixing superior quality modular switch mounting polycorbonate plate with necessary supporting back plate with required nos of machine screws bolts nuts, etc complete on the existing metal/PVC box	Nos	111.38	Rupees One hundred eleven & Thirty eight Paise Only
33	2	16-18 Module		273.38	Rupees Two hundred seventy three & thirty eight paise
34	2	Supplying and fixing modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293 6Amps one way switch P-9, I-3.5 Of electrical SR PWD 2019-20 6 Amps one way switch I 3.6.1	Each	70.88	Rupees Seventy & eighty eight Paise only
35	2	16 Amps 3 way socket I-3.6.3	Each	106.31	Rupees One hundred Six & thirty one Paise Only

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Executive Engineer

	Approved Quantity	Description	Unit	KRIDL Rates	
				Rate	In Words
	2	16 Amps one way switch only I-3.6.8	Each	116.44	Rupees One hundred sixteen & forty four Paise only
	3	6/16 Amps universel socket I-3.6.11	Each	164.03	Rupees One hundred sixty four & three Paise Only
	6	1000-1200 watts Dimmer I-3.6.7	Each	556.88	Rupees Five hundred fifty six & eighty eight Paise only
	2	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and C Type curve indicator ON/OFF ,energy cross-3 with short circuit breaking capacity of 10 K and complete wiring as required conforming to IEC 60898 6-32 Amps DP	Each	920.36	Rupees Nine hundred twenty & thirty six paise Only
40	2	Supplying fixing and wiring earth electrode for grounding of lifts, transformers, DG sets etc using 40mm dia 2.9mm thick 2.5 mtr long GI pipe with GI funnel with mesh and suitable size reducer fixed on the top of the earth electrode. The funnel should be enclosed in a CC chamber of 400x400x400mm with a cast iron cover. The earth electrode shall have staggered holes of 12mm dia and the electrode should be covered 150mm alround with alternate layers of salt and charcoal from the bottom of the CC chamber. The connection from the electrode is to be established through GI strip using GI bolts and nuts.	Nos	3037.20	Rupees Three thousand thirty seven & twenty Paise only
41	1	Supplying and fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers, 16 Amps	Nos	118.46	Rupees One hundred eighteen & forty six only
42	5	Supplying and fixing retrofit PL-LED lamp.....W LED Linear source with cct 6500 degree K ,CRI >70% Effiency >80 lumen per watt life >25000 burning hours and complaiance to IS 10322 /IEC 60598 ,LM 79 &LM 80 .The LED are driven by HF electronic driver integrated in the system with PF >0.95,Power should < 5% of lamp waltage short circuit and open circuit protection to be integrated in the circuit THD less than 20 % life as per LM 79 The operating input voltage should be between 130 to 275 volts Tested by NABL/CPBI accredited laboratory with 2 years warranty against manufacturing defect working under standard electrical, 18-20 Watts	Nos	430.31	Rupees Four hundred thirty & thirty one paise Only
43	5	Fixing all types and all capacities of flourescent /false ceiling /spot lighting/CFL/LED fittings indoor on the wall/ceiling/rafters/girders/using 23/0.0076" twin twisted PVC insulated wires required no of round blocks and clamps on wall/ceiling/Rafter/Girders	Nos	111.38	Rupees One hundred eleven & Thirty eight Paise Only
E-1	59.17	Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications.	Sqm	979.56	Rupees Nine hundred seventy nine & fifty six paise only
E-2	17.46	Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to ceiling incluidng rounding off corners wherever required smooth rendering providing and removing scaffolding including cost of materials, labour curing complete as per specification .	Sqm	208.44	Two hundred eight & forty four Paise only

Sl. No.	Approved Quantity	Description	Unit	KRIDL Rates	
				Rate	In Words
E-3	1.20	Providing and fixing in position aluminium windows and ventilators as per approved drawings with sliding shutters using double track window frame section of size 61.85x31.75mm. with 1.2mm thick, bottom section weight 0.695 kg/m, sides and top sections 1.3 mm. thick weight 0.659 kg/m; and shutter comprising top and bottom section of size 40mmx18mm, 1.25mm thick 0.417 kg./m; shutter outer side 40mmx18mm, 1.25mm.thick weight 0.417 kg/m, shutter interlock section 40mmx26.7mm, 1.1mm thick, weight 0.469 kg/m. the shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles tower bolts etc.; and providing and fixing 5.5mm. thick plain glass for shutters fitted with rubber beading aluminium sections including cutting to required length, joints mitred subdividing the frame tenonned and rivetted in the assembled frame stiffened with end clips at corners angles etc., and fixed to the walls, lintels, floor beams/cills as the case may be with necessary steel screws, raul plugs, or teak wood gatties including cutting masonry or concrete and making good the original surface using cement mortar, aluminium sections pretreated for removal of any Specification No. KBS	Sqm	4607.28	Rupees Four thousand six hundred seven & twenty eight Paise Only
E-4	25.20	Providing and fixing M.S.grill work for windows and ventilators weighing 21kg/sqm using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per specifications.	Kgs	102.60	Rupees One hundred two & sixty paise only
E-5	15.57	Providing and fixing Special make glazed Vitrified tiles (Granomite finis) of approved make, quality and colour of sized 6000x600x10mm thick fixed on existing flooring wit ha special roffe adhesive for flooring and skirting etc., complete including providing spears at required interval and removing stains etc., complete and as per the directions of the Engineer-in-charge of the work	Sqm	1188.00	Rupees One thousand one hundred eighty eight only
E-6	37.44	Providing 18mm thick cement plaster in single coat with cement mortar 1:3, to ceiling incluidng rounding off corners wherever required smooth rendering providing and removing scaffolding including cost of materials, labour curing complete as per specification	Sqm	298.08	Rupees two hundred ninety eight & eight paise only
E-7	54.90	Providing and applying two coats with oil bound washable distemper of approved brand and shade on wall surface including priming coat with distemper primer after throughly brooming the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications.	Sqm	90.72	Rupees Ninety & Seventy two Paise Only
E-8	47.16	Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. - with primer.	Sqm	90.72	Rupees Ninety & Seventy two Paise Only

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Schedule - B

Approved Quantity	Description	Unit	KRIDL Rates	
			Rate	In Words
200.00	Providing and installing at site of work PVC pipes including cost of pipes and specials and labour including lowering in to trenches laying true to line level and perfect linking at joints leak proof including jointing of approved type with all labour charges all lift charges handling charges including encasing the pipe around to adepth not less than 15 cms with gravel or selected earth available from the excavation etc complete PVC Pipes of 6.0 kg/cm2 63 mm outer dia	Mtr	155.00	Rupees One hundred fifty five only

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Executive Engineer
Dasarahalli Division
BBMP, Bangalore.